
INTERNATIONAL SERVICE OF GEOMAGNETIC INDICES

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1 IAGA Endorsed Geomagnetic Indices (non-definitive values)

1.1 *aa*

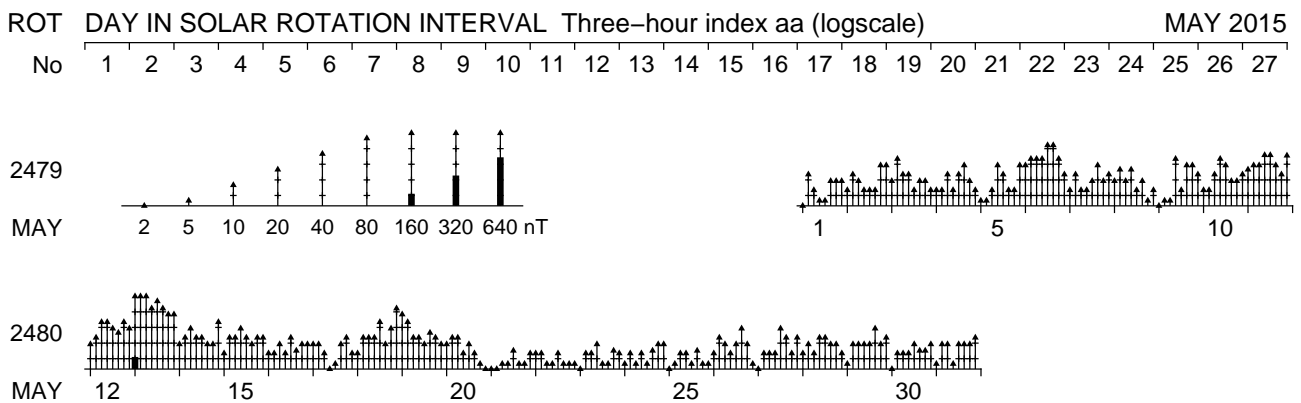
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Contact: A. Chambodut <isgi@unistra.fr>



1.2 *am*

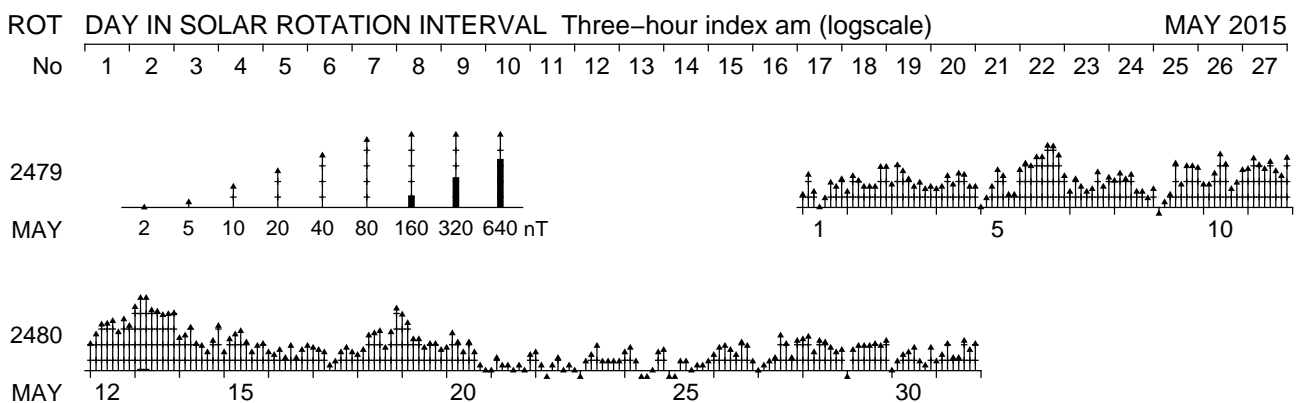
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1.3 K_p

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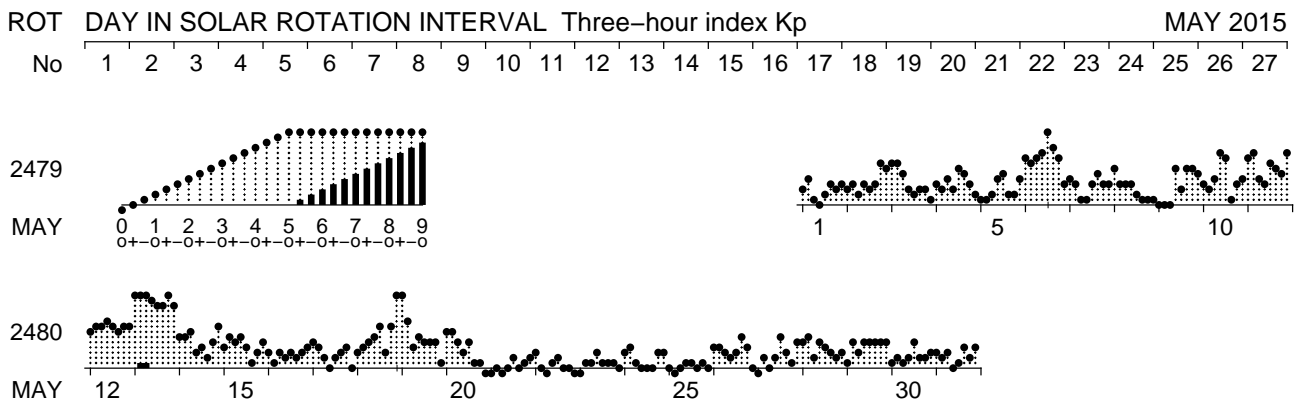
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1.4 *Dst*

ISGI Collaborating Institute:

World Data Center for Geomagnetism, Kyoto

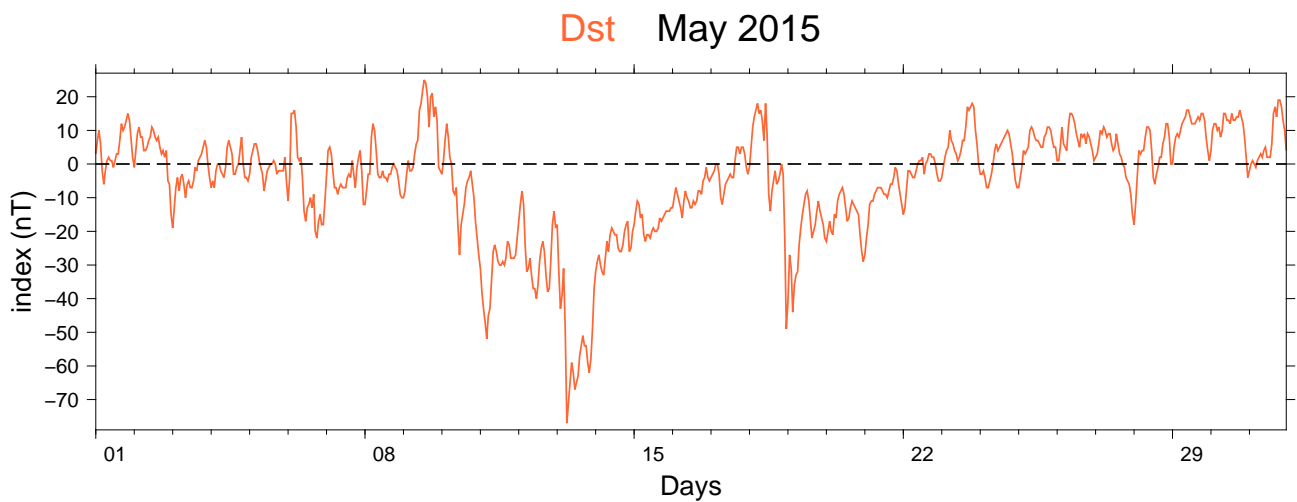
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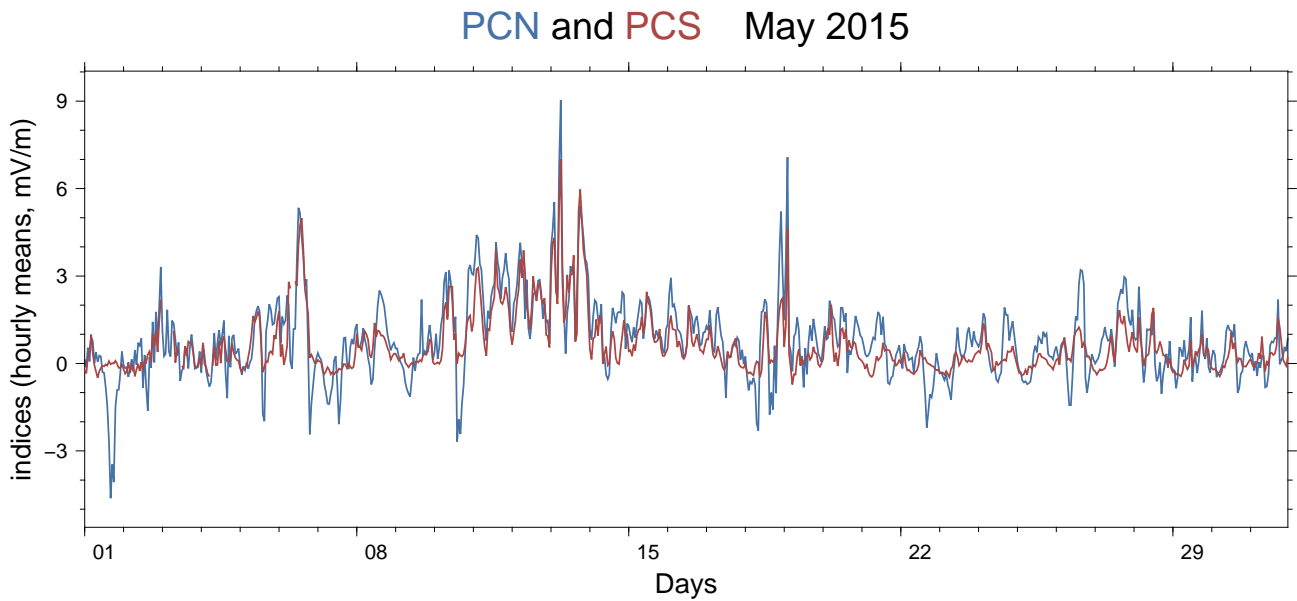


1.5 PC

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1.6 *AE*

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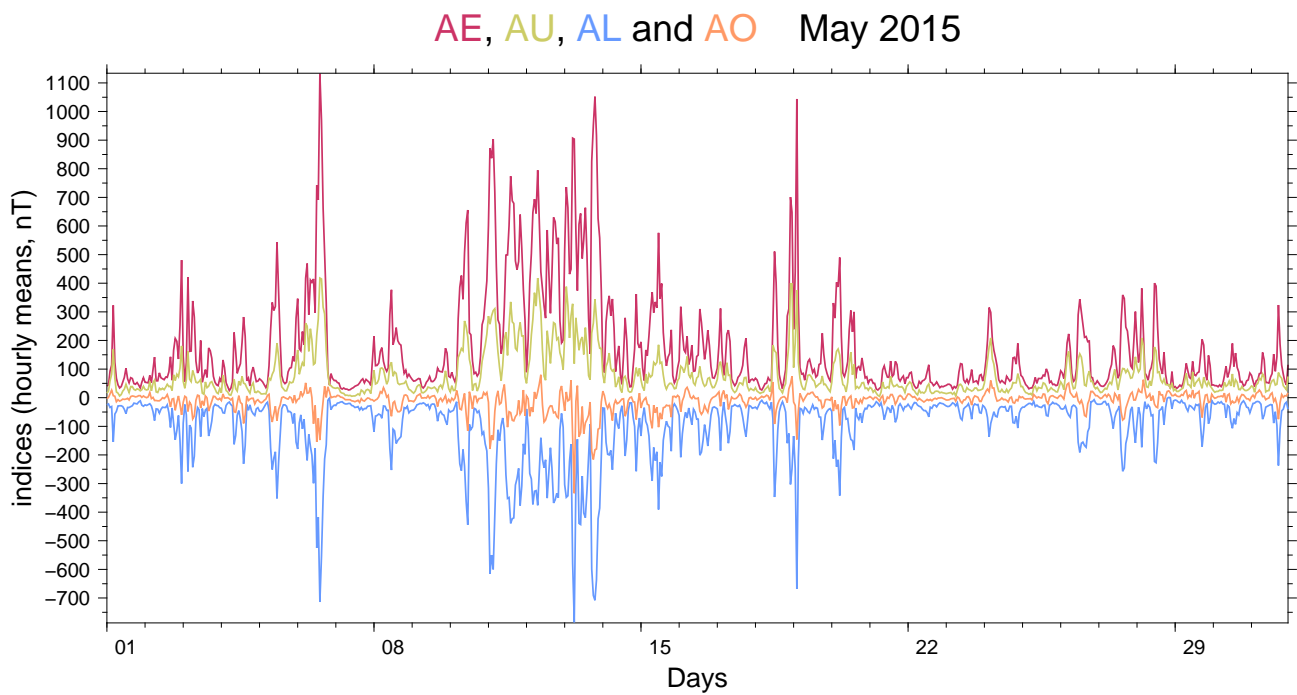
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2 IAGA Endorsed Geomagnetic Events (non-definitive values)

2.1 *SSC* and *SFE*

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SSC:

```
2015 05 06 01 42 A: WNG* NGK NAG GCK GUI
                  B: LER* ESK* HAD* EBR SPT
                  C: NUR VAL* BDV HYB GNG* CNB
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SFE:

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2015 05 05 2207-2236 MMB KAK KNY CNB
2015 05 11 1342-1347 GUI
```

2.2 Classification of days

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Date	Aa	CK24	CK48	Ap	Q/D
2015-05-01	9	C	C	5	
2015-05-02	14	-	-	7	
2015-05-03	15	-	-	8	
2015-05-04	13	-	C	7	
2015-05-05	12	K	-	5	
2015-05-06	36	-	-	22	D2
2015-05-07	13	-	-	6	
2015-05-08	12	C	-	5	
2015-05-09	15	-	-	7	
2015-05-10	16	-	-	9	
2015-05-11	28	-	-	14	D5*
2015-05-12	24	-	-	15	D3*
2015-05-13	82	-	-	46	D1
2015-05-14	18	-	-	8	
2015-05-15	16	-	-	6	
2015-05-16	11	C	C	5	Q8
2015-05-17	9	C	C	4	Q9
2015-05-18	23	-	-	15	D4*
2015-05-19	21	-	-	13	
2015-05-20	10	C	C	6	
2015-05-21	5	C	C	2	Q2
2015-05-22	6	C	C	2	Q3
2015-05-23	7	C	C	3	Q4
2015-05-24	8	C	C	4	Q5
2015-05-25	6	C	C	2	Q1
2015-05-26	12	C	C	5	
2015-05-27	11	C	C	4	Q10
2015-05-28	12	C	C	6	
2015-05-29	13	-	C	6	
2015-05-30	9	C	C	4	Q6
2015-05-31	11	C	C	4	Q7

2.2.1 Truly magnetically very quiet (C) and quiet (K) periods (from *aa*)

The values for the CK24 define quietest days over 24-hours with:

$$\overline{(aa)} = Aa < 13 \text{ nT} \begin{cases} \text{“K” indicates a quiet K-day with } \sum(p) \geq 4 \\ \text{“C” indicates a really quiet C-day with } \sum(p) < 4 \end{cases}$$

The values for the CK48 define quietest days over 48-hours with:

$$\overline{(aa)} < 13 \text{ nT} \begin{cases} \text{“K” indicates a quiet K-day with } \sum(p) \geq 6 \\ \text{“C” indicates a really quiet C-day with } \sum(p) < 6 \end{cases}$$

where p is a weight assigned at each aa value.

2.2.2 10 international quietest days (Q1-10) and 5 most disturbed days (D1-5)

The values for Q -Days, $Q1 - Q10$, are the order number of the ten quietest days of the month.

A selected quiet day is considered not really quiet and is:

- marked by the letter “A” if ($Ap > 6 \text{ nT}$);
- marked by the letter “K” if ($Ap \leq 6 \text{ nT}$), or if one ($Kp > 3$), or two ($Kp > 2+$).

The values for D -Days, $D1 - D5$, are the order number of the five most disturbed days of the month. A selected disturbed day is considered not really disturbed and marked by “*” if ($Ap < 20 \text{ nT}$).